2**27**98

Producing single crystals of ...

\$/070/61/006/003/009/009 **E073/E**535

established that saturation was reached when about 40 ml ${
m TiCl}_4$ was added to 100 ml of water. The concentration of the obtained solution was determined by precipitating titanium with ammonia and subsequent weighing in the form of TiO_2 . Then, a 25% solution of SrCl, was prepared and both solutions were mixed; the obtained cold mixture was poured into a prepared 10% solution of hot ammonium oxalate. For neutralizing the forming oxide, ammonia was added until a smell could be detected. The obtained precipitate of a double salt of Sr and Ti oxalate was washed in water to remove chlorine, dried and sintered at 450°C for one hour so as to obtain SrTiO_z. After sintering, the powder was crushed in a porcelain mortar to such a size that it should pass through a shove with 1000 holes per cm². Single crystals of SrTiO, were grown according to the Verneuil method in a corundum furnace. SrTiO, forms with silit rods, which are used as supports, easily fusible compounis, as a result of which the base of the crystal becomes soft. To prevent this, the base of the cone of the charge should be located in a zone with sufficiently low temperatures. It was established experimentally that the base of the cone should be at a distance of 3 cm from the top at the instant of formation of a Card 2/6

是一个人们的证明,我们们们的现在分词,我们就是这个人的,我们就是这个人的,我们就是这个人的,我们就是这个人的,我们就是这个人的,我们就是这个人的,我们也不是一个

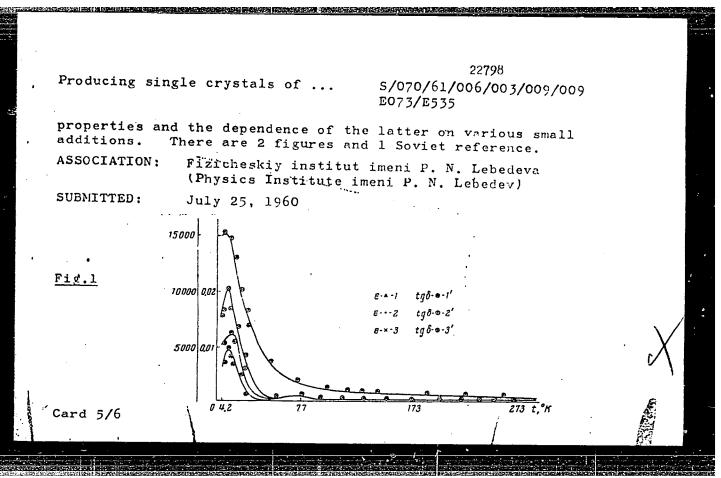
Producing single crystals of ... 5/070/61/006/003/009/009 2073/E535

drop on it (t \simeq 2000°C); therefore, prior to drop formation, the charge cone was 3 cm high. In a number experiments bases were used which were made of pressed SrTiO powder sintered at 1400°C. The crystals were grown without germinations at an average speed of 10 to 30 mm/hour. The flame conditions varied from a reducing one to an oxiding one. Under oxiding conditions, bright transparent crystals 30 mm long with a diameter of over 5 mm were produced. The reflection index determined by the immersion method equalled 2.39. According to spectrum analysis, the contents of the admixtures did not exceed the following values in %: Mg - 0.006, Si - 0.006, Al - 0.01, The produced single crystals were annealed to remove Fe - 0.003. internal stresses. Then, slices $6 \times 5 \times 1$ mm were cut perpendicularly to the axis of growth. Silver electrodes were burned on after the coherence of the surface had been checked by a microscope. The dielectric constant varied between 315 and 320 and was independent of frequency. At sonic frequencies tg b did not exceed 0.004. Fig.1 shows the dependence of ϵ and tg δ on the temperature for SrTiO, single crystals at the frequencies 200 c.p.s., 1 and 5 kc/s for the values denoted by 1, 2, 3 and 1', 2', 3' in Card 3/6

Producing single crystals of ...

22798 **5/070/61/006/003/009/009 E073/E53**5

At temperatures below 77°K a sharp increase in ε was the plot. In the range 3 to 4°C above the liquid helium temperaobserved. ture & remains practically constant, reaching a value of about The temperature dependence of tg b is characterized by a very pronounced maximum (at T \sim 13 K), the position of which is practically independent of frequency. In the temperature range 48 to 98°K a second, weak maximum was observed for tg &, which shifts towards higher temperatures with increasing frequency. Investigation of the dielectric hysteresis was at 293, 77, 4.2 °K. No hysteresis loops were detected at room temperature and liquid nitrogen temperature. The maximum potential of the electric field in these cases did not exceed 30 kV/cm. The results obtained at liquid helium temperature are plotted in Fig.2 (graph 1 - E = 1 kV/cm, graph 2 - E = 3 kV/cm, graph 3 - E = 5 kV/cm). They show that, at this temperature, the hysteresis loop is very narrow without a pronounced saturation. Due to breakdown of the investigated specimens, the authors were unable to observe hysteresis loops at higher field strengths. Work is proceeding on elucidating the influence of the purity of single crystals on their dielectric Card 4/6



REZNIK, I.; MAKSIMOVA, I.

Foreign methods for copying and duplicating documents. Biul.
nauch.inform.; trud i zar.plata no.2:67-74 '59.

(Copying processes)

(Copying processes)

SERBINOVA, N.I.; Prinimali uchastiye: LESHCHINSKAYA, I.B., diplomant;
BUX, T.T., diplomant; MAKSIHOVA, I.B., laborant.

Conditions of fermentation and the selection of pure yeast cultures for semisweet table wines. Trudy VNIIVIV "Magarach" 9:83-95 '60.

(MIRA 13:11)

(Wine and wine making)

(Yeast)

KOSHLYAKOV, N.S.; MAKSIKOVA, I.G.

An ordinary Laplace's equation of the fourth order [with suggesty in English]. Inzh.-fiz.zhur. 1 no.8:73-83 Ag '58. (MIRA 11:8) (Harmonic functions)

BUR'YAN, N.I.; VODOREZ, G.D.; MAKSIMOVA I.G.

Group B vitamin content in red grape vine. Trudy VNIIVIV

"Magarach" 13:80-83 '64.

(MIRA 17:12)

KAPLAN, M. A.; MAKSIMOVA, I. I.

"Printsipy i metody ekspeditsionno-sobiratel'skoy raboty (opyt Gosudarstvennogo Muzeya etnografii narodov SSSR)."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences, Moscow, 3-10 Aug 64.

MAKSIMOVA, I. L.

"Changes in the Numbers of Thrombocytes and in the Thrombocyte Formula in Various Infectious Diseases," Tezisy Dokladov 9-y Nauchnoy-Sessii Kishinevskogo Gosudarstvennogo Meditsinskogo Instituta (Theses of Reports Presented at the 9th Scientific Session of the Kishinev State Medical Institute), Kishinev, 1952, p. 54.

USSR / Pharmacology and Toxicology--Medicinal Plants V-5

Abs Jour: Ref Zhur-Biol., No 23, 1958, 107339

Author : Maksimova, I. L.

Inst : Kishinev Medical Institute

Title : The Effect of Walnut Seeds upon the Secretion and

Acidity of the Gastric Juice

Orig Pub: Tr. Kishinevsk. med. in-ta, 1956, 5, 325-328

Abstract: The effect of seeds of the walnut on the acidity
(A) of the gastric content (GC) was studied on 106
patients, out of whom an increased A of GC was
present in 57, low in 13, and normal in 36. The
seeds were introduced perorally in a crushed form
for 10 days, 30 minutes before meals, in a dose of
15 to 50 grams. It was established that in hyper-

Card 1/2

11

MAKSIMOVA, I. L. Cand Med Sci -- (diss) "The Effect of Walnut Kernels" on the Secretion and Acidity of the Gastric Juice."

Kishinew, 1957. 6 pp 20 cm. (Min. of Health, Moldavian SSR,

Kishinew State Medical Inst), 200 copies (KL, 16-57, 101)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031710002-6"

-19-

KOROVINA, T.V.; MAKSIMOVA, I.L.; YAKOVLEVA, I.A.

Clinical aspects of dermatomyositis. Zdravookhranenie 2 no.5:40-45 S-0 '59. (MIRA 13:4)

 Iz kafedr gospital'noy terapii (zaveduyushchiy - prof. M.A. Polyukov) i patologicheskoy anatomii (zaveduyushchiy - kand, med. nauk V.Kh. Anestiadi) Kishinevskogo meditsinskogo instituta. (MUSCLES--DISEASES)

MAKSIMOVA, I.L.

Blood cholesterol level in the compound treatment of hypertension and atherosclerosis. Zdravookhranenie 3 no. 5:30-33 S-0 '60. (MIRA 13:10)

1. Iz kafedry gospital'noy terapii (zav. - prof. M.A. Polyukhov) Kishinevskogo meditsinskogo instituta. (CHOLESTEROL) (HYPERTENSION) (ARTERIOSCLEROSIS)

HARSIMOVA, I.L. Hypercholesteremia in elderly persons. Trudy Kish.gcs.med.inst. 12:121-124 '60. (MIRA 16:4) 1. Kafedra gospital'noy terapii Kishinevskogo gosudarstvennogo meditsiiskogo instituta. (GERIATRICS) (BL: COD-DISEASES) (CHOLESTEROL)

MARSIMOVA, I.L.

Concerning the treatment of cholesteremia. Trudy Kish.gos.med. inst. 13:123-124 *60. (MIRA 16:2)

1. Kafedra gospital'noy terapii Kishinevskogo gosudarstvennogo meditsinskogo instituta.
(CHOLESTEROL) (PHARMACOLOGY)

MAKSIMOVA, I.L.; SMIRNOVA, E., red.

[Experience in the use of Moliavian valuuts in gastric diseases] Opyt primeneniia moldavskikh gretskikh orekhov pri zabolevaniiakh zheludka. Kishinev, Kartia moldoveniaske, 1964. 97 p. (MIRA 17:10)

5.1310

77640

SOV/80-33-2-15/52

AUTHORS:

Volova, Ye. D., Maksimova, I. N., Mashovets, V. P., and

Fomichev, V. G.

TITLE:

Electrolytic Preparation of Thallium Amalgam for Low-

Temperature Thermometers

PERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 2, pp

349-354 (USSR)

ABSTRACT:

Electrolytic preparation of thallium amalgam was studied to determine optimum conditions for the process. The materials used were: purified and vacuum-distilled mercury (and brand P-2 mercury); thallium sulfate of composition: Tl.SO4, 99.9%; Fé, 0.001%; Cu.0.005%; water insoluble impurities 0.01%, impurities precipitable with NH2OH 0.01%, those

not precipitable with $(NH_4)_{\mbox{\scriptsize 9}}S$ 0.01%; and metallic

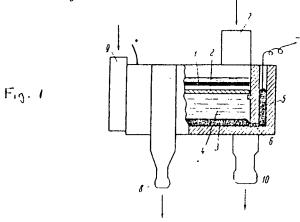
thallium (for preparation of amalgam by direct

Card 1/8

Electrolytic Preparation of Thallium Amalgam for Low-Temperature Thermometers

77640 80V/80-33-2-15/52

dissolution of Tl in mercury) containing Tl, 99.8%; Zn,0.004%; Cd,0.02%; Cu,0.006%; Pb,0.005%; and Fe,0.001%. Figure 1. shows the cross section of the electrolyzer.



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See Card 3/8 f

for caption.

Electrolytic Preparation of Thallium Amalgam for Low-Temperature Thermometers

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Caption to Fig. 1.

Fig. 1. Cross section of the electrolyzer: (1) anode; (2) pressed fiberglass membrane; (3) flowing mercury cathode; (4) the electrolyte; (5) outlet from cathode; (6) platinum contact; (7) inlet for the electrolyte; (8) electrolyte drain; (9) inlet for the mercury; (10) amalgam drain.

Content of thallium in amalgam was determined by potentiometric titration with 0.01 N KBrO $_3$ of 0.2-0.5 g amalgam samples dissolved in dilute sulfuric acid. Results obtained by the use of a platinum wire anode (with a surface area of 2.5 cm 2) were compared with the results with a lead anode (a perforated horizontal plate of \sim 30 cm 2 surface). Cathodes with an area of 5.7 and 30 cm 2 in the first case, and 30 cm 2 in the second were used. In the

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Electrolytic Preparation of Thallium Amalgam for Low-Temperature Thermometers

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case of platinum anode 95-100% thallium yield based on current were reached at all investigated temperatures (20-45°), cathodic current densities (12-50 ma/cm²), acidities of initial solution (0.001 to 1.33 g-equiv/1) and flowrates, w, of the solution from w theoret (in 1/mln) to 5 w theoret at the optimum composition of the electrolyte (high Tl⁺ concentration and low acidity). W theoret was calculated from Tl concentration and current, taking complete Tl extraction and yield based on current as 100%. Figure 1 shows that the degree of thallium utilization (in amalgam) is inversely proportional to the flowrate of the solution.

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Electrolytic Preparation of Thallium Amalgam for Low-Temperature Thermometers

77640 SOV/80-33-2-15/52

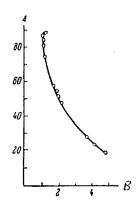


Fig. 2. Degree of thallium utilization (in %): (A) as a function of solution flowrate; (8) -- w_{actual} wtheoretical -- in electrolysis with a platinum anode.

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Electrolytic Preparation . Thallium Amalgam for Low-Temperature Thermometers

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The output is lowered with decreasing thallium concentration (by lowering concentration of Tl from 40.5 to 8.5 g/l, the yield based on current dropped from 98.0 to 64.5% and degree of thallium utilization from 86.0 to 50.2%) and with increasing acidity (at / H / 1.33 g-equiv/l compared to the optimum \leq 0.01 g-equv/l the yield dropped to 70.6%). Experiments with a lead anode show that the process gives lower outputs than with platinum anode, is accompanied by thallium oxidation to Tl $_{20}$ and is more sensitive to changes in temperature (rise in temperature increases thallium yield and utilization and decreases oxidation), current density (increase of current density raises Tl yield and utilization somewhat with a maximum at 50 ma /cm 2 ; a subsequent decrease in yield is probably caused by increasing evolution of hydrogen at the cathode) and flowrate (increasing flowrate somewhat decreases oxidation, increases Tl yield and decreases degree of utilization). Unfavorable results

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Electrolytic Preparation of Thallium Amalgam for Low-Temperature Thermometers

77640 SOV/80-33-2-15/52

obtained by the use of lead anode are caused by its large surface area and high overvoltage. Experiments on electrolysis with a smaller lead anode resulted in overheating of electrolyte and decomposition of anode. On the basis of experimental results the authors recommend the use of a platinum anode with a small surface area. Optimum conditions: the electrolyte containing 40.5 g/l of Tl^+ and \leq 0.01 g-equiv/l of free H_2SO_{ll} ; temperature 20-40°; cathodic current density 35-50 ma/cm²; and the flowrate of the solution 1.02-1.05 w_{theoret}. In electrolysis on the lead anode temperature of 60-65 and current density of 50-70 ma /cm² should be used. Preparation of thallium amalgam by dissolving thallium in mercury (at room temperature, under glycerin or water) is a simpler process than electrolysis, but the amalgam prepared by the latter process is supposed to be of greater purity. The amalgams prepared by both processes have been submitted for tests in low-temperature thermometers to ascertain the advantages of the electrolysis amalgam.

Card 7/8

Electrolytic Preparation of Thallium Amalgam for Low-Temperature

77640 S0V/80-33-2-15/52

There are 5 figures; 1 table; and 13 references, 3 Sovie'. 5 German, 1 U.K., 4 U.S. Abstracter's Note: are are 12 references listed in the article but one of them was broken down into two. The U.K. and U.S. references are: D. Mac-Intosh, F. M. Johnson, J. Am. Chem. Soc., 34, 941 (1910); J. Enrenreich, Instruments & Automation, 27, 1070 (1954); F. W. Richards, C. Smith, J. Am. Chem. Soc., 44, 524 (1922), 45, 1455 (1923); F. Singch, J. Indian. Chem. Soc., 13, 717 (1936); F. W. Richards, F. Daniels, J. Am. Chem. Soc., 41, 1732 (1919).

ASSOCIATION:

Leningrad Lensovet Technological Institute (Liningradskiy tekhnologicheskiy institut imeni Lensoveta)

SUBMITTED:

February 25, 1959

Card 8/8

MASHOVETS, V.P.; LOKSHINA, A.S.; MAKSIMOVA, I.N.

Anodic processes on platinum and lead anodes during the electrolytic production of thellium amalgam. Trudy LTI no.61:104-109 '60. (MIRA 15:5) (Thallium) (Amalgams) (Electrochemistry)

MAKSIMOVA, I.N.

Determination of affinity between elements and electrons. Zhur. struktkhim. 2 no.4:462-468 Jl-Ag:61. (MIRA 14:9)

1. Leningradskoy tekhnologicheskiy institut imeni Lensoveta.
(Chemical elements) (Electrons)

MAI	KS IMOVA, I.N.	
	Ionization potentials and the position of elements in the Mendeleev system. Zhur.strukt.khim. 3 no.1:70-79 Ja-F 162. (MIRA 15:3)	라
	1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta. (Ionization) (Periodic law)	
		٠

MAKSIMOVA, P.N.; MASHOVETS, V.F.; VOLKOVA, A.V.

Cathodic processes during electrolysis of mixed solutions of univalent and trivalent thallium sulfates. Zhur.prikl.khim. 36 no.3:565-571 My 163. (MIRA 16:5)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Thallium sulfate) (Electrolysis)

MARSIMOVA, I.N.; YUSHKEVICH, V.F.

Electric conductivity of sodium metaborate solutions at high temperatures. Zhur.fiz.khim. 37 no.8:1859-1863 Ag '63.

(MIRA 16:9)

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta.

(Sodium borates--Electric properties)

Temperature dependence of the viscosity of some aqueous solutions and organic liquids. Zhur. fiz. khim. 18 no.1:197-200 Ja'64.

(MIRA 17:2)

1. Leningradskiy tekhnologicheskiy institut imeni Lenscveta.

Determination of the density of aqueous solutions. Zhur, fiz. khim.
39 no.3:551-554 Mr '65. (MIRA 18:7)

1. Leningradskiy tekhnologicheskiy institut.

MAKSIMOVA, I.; MASHOVETS, V.; YUSHKEVICH, V.

Conductance of sodium aluminate solutions at high temperatures, Zhur.prikl.khim. 38 no.6 1400 1403 We 165,

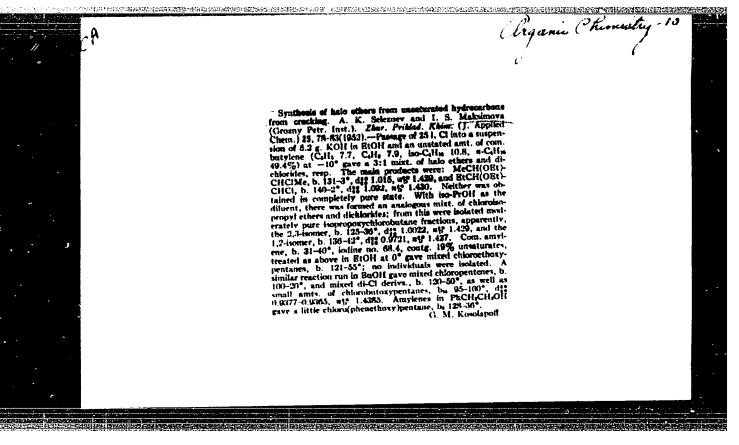
(MIRA 18:10)

MAKSIMOVA, I.N.; YUSHKEVICH, V.F.

Electric conductance of NaOH solutions at high temperatures. Zhur. fiz. khim. 37 no.4:903...907 Ap 163. (MIRA 17:7)

1. Leningradskiy tekhnolog'cheskiy institut.

MAKSIMOVA, I.N. Relation between electric conductivity and viscosity of solutions. Zhur. fiz. khim. 32 nc.2.277-279 F 162. (MIRA 17:8) 1. Tekhnologicneskiy institut imoni letaovata, Leningrad.



Reaction of the dehydrochlorination of \$\beta\$-chloro ethers. Zhur. prikl. khim. 34 no.1:208-211 Ja '61. (MIRA 14:1) (Ethers) (Hydrochloric acid)

MAKSIMOVA, I. S.

USSR/Chemistry - Petroleum

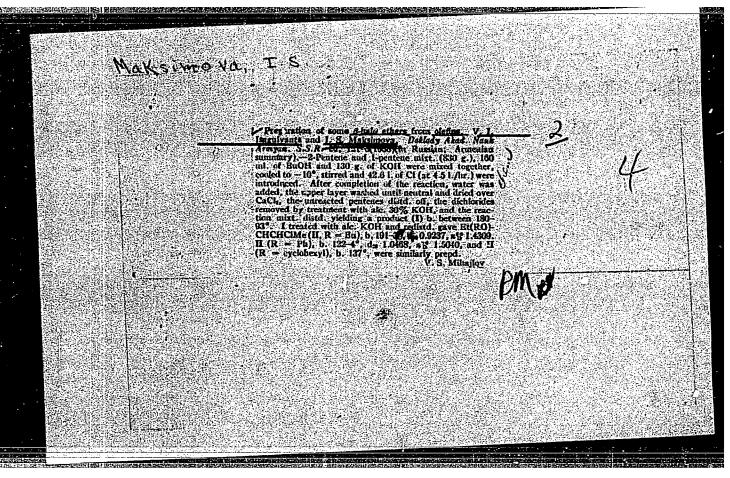
Jan 52

"Synthesis of Halogen - Substituted Ethers From Unsaturated Cracking Hydrocarbons," A. K. Seleznev, I. S. Maksimova, Lab of Org Chem and Petroleum Chem, Groznyy Order of the Red Banner Petroleum Inst

"Zhur Prik Khim" Vol XXVI, No 1, pp 78-83

Synthesized Et and iso-Pr ethers of λ -and β -butene chlorohydrine from butane-butene cracking fraction. These products may elicit interest as valuable solvents.

206T43



MAKSIMOVA, I.S.

Min Higher Education USER. Grozny; Order of Labor and Banner retroleum
Inst.

Maksimova, I.S.: "Investigation of the synthesis and transformation of betachloro ethers obtained from olefins in cracking petroleum." Min Higher Education USSR. Groznyy Order of Labor Red Banner Petroleum Inst. Groznyy, 1956 (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis', No. 20, 1956

MAKSIMOUA, I.S.

USSR/Organic Chemistry. Synthetic Organic Chemistry.

E-2

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19056

Author : Isagulyantz V. I., Maksimova I.S.

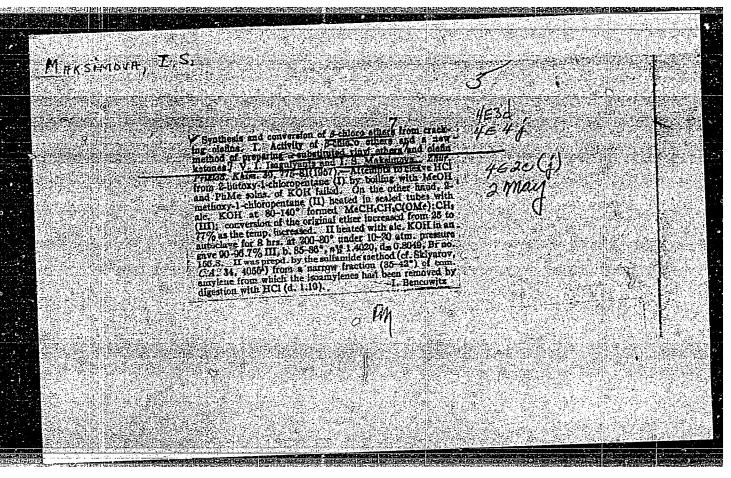
mim-1. M. GUBKIN : Moscow Petroleum ... M. GUBKIN
: New Method for the Preparation of -substituted vinyl Inst

Title Ethers and Ketones.

Orig Pub: Dokl. AN ArmSSR, 1956, 22, No 5, 203-208

A method is developed for the transformation of B-chloroethers (I) in &-substituted vinyl ethers by heating I Abstrect: with an alcoholic alkali at various temperatures and pressures. 10 g. of 2-methoxy-1-chloropertane (obtained) from the pentaneamylene fraction of the thermic cracking and chloramine in CH₃OH at -8°, yield 84%, b.p. 14-143°n²Op 1.4290, and dh. 0.9720) and heated in an ampoule (140°, 5 hours) with 4.5 g. KOH in 10 cc C₂H₅OH. After treatment with water and fractionation is isolated CH2-C(C3H7) OCH3 (II), yield 77%, b.p. 85-86°, n²⁰D

: 1/2 Card 2/2 Card



AUTHOR

ISAGULYANTS, V.I., MAKSIMOVA, I.S.,

20-1-28/64

STEEL PROTECTION OF THE PROTEC

TITLE

member of the Armenian Academy of Science. The Transformation of β -chlorine ethers in the presence of

metals. (Prevrashcheniye β -chlorefirov v prisutstvii metallov.-

PERIODICAL

Doklady Akademii Nauk SSSR 1957, Vol 114, Nr 1, pp 102-105

(U.S.S.R.)

ABSTRACT

In the course of previously published reports the new reaction of β -chlorine ethers and their ability of separating hydrochloric acid in certain circumstances has already been described. The development of investigations within the field of transformations of β -chlorin ethers which were carried out by the above authors referred to transformations in the presence of such metals as sodium, aluminium, copper, and magnium, on which occasion mainly methyl ether of chlorhydrine was used. Experimentally it was established that the presence of chloride of copper causes polymerization of vinyl ether, but the degree of polymerization is low. Experiments with aluminum dust were carried out by he autoclave method. Temperature fluctuated between 180 and 280°. Experiments with magnium were carried out in the temperature interval of 160 - 280°. If the influence exercised by copper,

CARD 1/2

20-1-28/64

The Transformation of β -chlorine ethers in the presence of metals.

aluminium, and magnium upon chlorine ethers is compared, it is found that the activity mechanism of these metals remains unchanged: all of them at first promote catalytic separation of HCl from ether, and afterwards the separated hydrochloric acid together with the free metals causes the formation of chlorides. These chlorides intensify the reaction of the separation of hydrochloric acid and catalyze the renewed reaction of hydrolysis and polymerization of the alpha-derivative of vinyl ether

(With 5 tables and some chemical formulae)

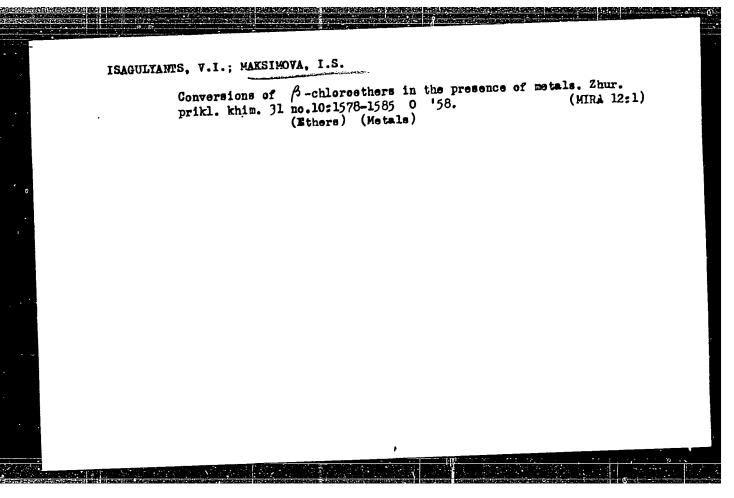
ASSOCIATION: not given.

PRESENTED BY: -SUBMITTED/

AVAILABLE:

CARD 2/2

Library of Congress.



S/081/61/000/020/071/089 B126/B147

AUTHORS:

Isagulyants, V. I., Maksimova, I. S.

TITLE:

Synthesis of α -substituted vinyl esters, ketones, and other chemical compounds of β -chloro esters obtained from cracked

pentane amylene fraction

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 20, 1961, 318, abstract 20L16 ([Tr.] Groznensk. neft. in-t, 3b. 23, 1960, 151-162)

TEXT: A new method for the synthesis of vinyl esters from β-chloro esters obtained from cracked fractions was developed, and the effects of temperature, alkali concentration, and alcohol nature on the process were studied. The substituted vinyl esters obtained are used as monomers and also for the synthesis of carbonyl compounds. [Abstracter's note: Complete translation.]

Card 1/1

s/081/61/000/021/061/094 B138/B101

AUTHORS:

Isagulyants, V. I., Maksimova, I. C.

TITLE:

Alkylation of phenol by β chloro ethers, and by dichlorides and dibromides separated from the pentane-amylene cracking

fractions

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 21, 1961, 320, abstract, 21L37 (Tr. Groznensk. neft. in-t. sb. 24, 1960, 38-44)

TEXT: As a result of the alkylation of phenol by dichlorides and dibromides separated from chlorinated or bromized pentane-amylene fractions, the corresponding alkyl phenols are obtained. It is suggested that they could be used as the raw materials for the production of alcoholsoluble acid-resistant varnishes. Two new alkyl phenols have been produced by the alkylation of phenol with β chloro ethers: CH3CH2CH(OC4H9)CH(CH3)C6H4OH, BP 180 to 190°C/3 - 4 mm Hg, and CH₂CH₂CH(OCH₃)CH(CH₃)C₆H₄OH,

BP 160 = 180°C/4 - 5 mm Hg. [Abstructer's note: Complete translation.]

Card 1/1

عدرت 5/080/61/034/001/016/020 ۵057/A129

5.3600

AUTHORS: Isagulyants, V.I., Maksimova, I.S.

TITLE: Reaction of Dehydrochlorination of β -chloro-ethers

PERIODICAL: Zhurnal Prikladnoy Khimii, 1961, Vol. 34, No. 1, pp. 208-211

TEXT: In the present work the influence of the nature of the alkoxy group in β -chloro-ethers on dehydrochlorination was investigated. It was observed that an increase in the number of C atoms in the carbon radical promotes dehydrochlorination. The present experiments were carried out with: 2-chloro-hydrochlorination. The present experiments were carried out with: 2-chloro-hydrochlorination and 2-chloro-j-butoxy-pentane. Two new substituted vinyl ethers were obtained: 3-propoxy-pentene-2 and 3-butoxy-pentene-2. In previous papers the present authors described synthesis of substituted vinyl ethers by dehydrochlorination of β -chloro ethers [Ref.1: DAN Arm. SSR, 22,5, 203 (1956), and Ref.2: ZhPKh, 30,775 (1957)]. The latter were obtained from cracking olefines. Vinyl ethers are chemically highly active and are used in the preparation of polymers. Developing the research program the present authors investigated [Ref.3: Tr.mezhvuzovskoy nauchno-tekhn.konf. po proble-Card 1/6

22531 S/080/61/034/001/016/020 A057/**A**129

Reaction of Dehydrochlorination of β-chloro-ethers A057/A129

mam ispol'zovaniya nefti i gaza dlya khim.sinteza i novykh vidov motornykh topliv (Proceedings of the inter-university scientific technical conference on problems of the use of petroleum and gas for chemical synthesis and new types of motor fuels), 7,28,157-162 (1960)] the effect of alkali concentrations. tion and nature of alcohol (used as solvent) on dehydrochlorination of β chloro-ethers. Experiments with methyl chloro-ether demonstrated that the yield of vinyl. ethers depends on alkali concentration. Optimum ratio is methyl chloro-ether: alcohol = 1:3. Solutions of KOH in methyl-, ethyl-, butyl-, and amyl-alcohol were investigated and it was observed that the main reaction product with KOH solutions in methanol or ethanol was α -propyl-methyl-vinyl ether. While using butanol-, or amyl-alcohol-solutions of KOH the yield of vinyl ether decreased and chlorine in the β-chloro-ether was substituted partly by the alkoxy group of the used alcohol. The \$-chloro-ethers used in the present investigations were obtained from a cracked pentane-amylene fraction by a previously described method [Ref.4: A.K. Seleznev, and I.S. Maksimova, ZhPKh, 25,78 (1952); Ref.5: V.I. Izagulyants, I.S. Maksimova, DAN Arm. SSR, 20,120 (1955)]. The constants of the ethers are given in Table 1. The experiments were carried cut in an autoclave by heating the mixture (β chloro-ether: alcohol = 1:3) at 10-15 atm during 1-2 hrs (see Tab.2,3). [Abstracter's note: no data on temperature are given, but previous papers are Card 2/6

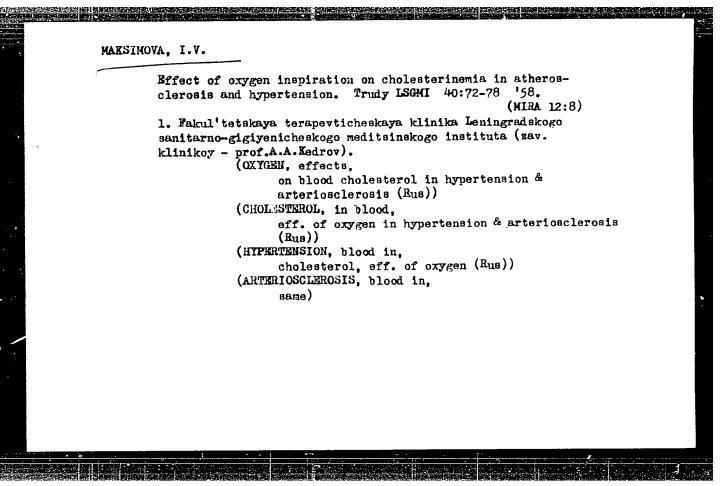
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referred to]. Dehydrochlorination conditions for the methyl ether have been more rigorous, viz., 8 hrs heating at 10-20 atm (Ref.2). The constants of 3-propoxy-pentene-2 obtained are: boiling point 125-126°C, nD 1.4080, d20 0.7841, MR = 40.313 (calculated), 40.30 (obtained) [Abstracters note: the latter is a misprint and should read 4.30], bromine number 125 (calculated), 122.4 (obtained), empirical formula C_8H_160 ; constants for 3-butoxy-pentene-2 are: boiling point 146-147°C, nD 1.4145, d20 0.7926, MR 44.93 (calculated), 44.81 (obtained), bromine number 112.6 (calculated), 111.2 (obtained), empirical formula $C_9H_{18}0$. There are 5 tables and 5 Soviet references.

SUBMITTED: June 9, 1960

Card 3/6

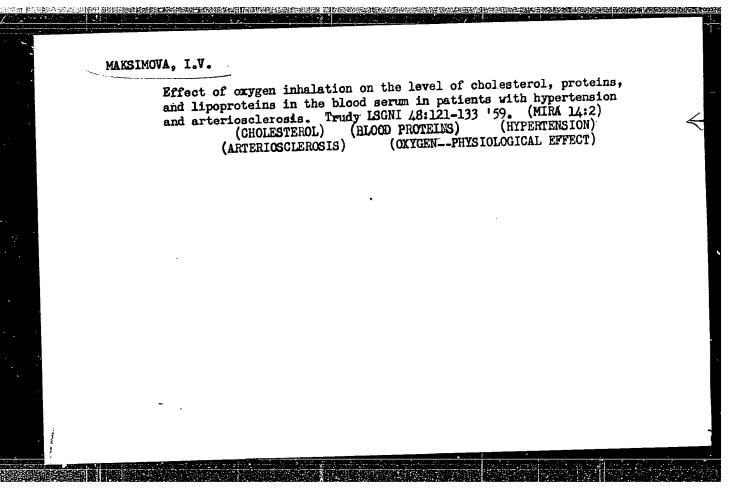


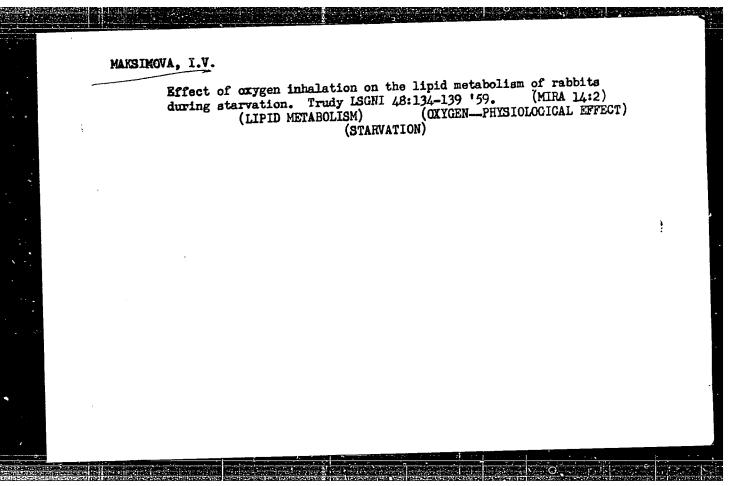
MAKSIMOVA, I.V.

Change in the blood cholesterol level in atherosclerosis and hypertension under the influence of oxygen therapy. Sov.med. 23 no.1:50-52 Ja '59. (MIRA 12:2)

 Iz fakul'tetskoy terapevticheskoy kliniki (zav. - prof. A.A. Kedrov) Leningradskogc sanitarno-gigiyenicheskogo meditsinskogo instituta.

(ARTERIOSCLEROSIS, blood in
cholesterol, eff. of oxygen inhalation ther. (Rus))
(HYPERTENSION, blood in
same)
(CHOLESTEROL, in blood
in arteriosclerosis & hypertension, eff. of oxygen
inhalation ther. (Rus))
(OXYGEN, ther. use
inhalation inarteriosclerosis & hypertension, eff.
on blood cholesterol (Rus))





MAKSIMOVA, I. V., Cand Med Sci -- (diss) "Influence of oxygen therapy on lipoids, lipoprotein and protein fractions of the blood in atherosclerotic and hypertonic patients." Leningrad, 1960. 14 pp; (Ministry of Public Health RSFSR, Leningrad Medical Inst of Sanitation and Hygiene); 300 copies; price not given; (KL, 29-60, 127)

ZHDANNIKOVA, Ye.N.; PIMENOVA, M.N.; MAKSIMOVA, I.V.; BALITSKAYA, R.M.

Preservation of algal collections; lasting preservation of protococcal algae on agar slants and in sand at 3.4°C. Vest. Mosk.un.Ser.6; Biel., pochv. 19 no.1:45-49 Ja-F '64. (MIRA 17:4)

1. Kafedra mikrobiologii Moskovskogo universiteta.

Thanks .

MAKS DAOVA, 1.V., LADTOCHKINA, K.D.

Ca_ses of death of bacteria in growing algal cultures. Report No.1 Characteristics of the growth of Bacillus cereus and Pseudomonas ovalis in developing cultures of green protococcal algae. Vest. Mosk. un. Ser. 6; Biol., pochv. 19 no.3:40-47 My-Je 164.

(MIRA 17:12)

1. Kafedra mikrobiologii Moskovskogo universiteta.

ACCESSION NR: AP4031842

\$/0220/64/033/002/0221/0223

AUTHOR: Shaposhnikov, V. N.; Pimenova, M. N.; Maksimova, I. V.; Zhdannikova, Ye. N.; Ramenskaya, A. A.

TITLE: Seasonal periodicity in the growth of green algae under laboratory conditions

SOURCE: Mikrobiologiya, v. 33, no. 2, 1964, 221-223

TOPIC TAGS: algae cultivation, Chlorella vulgaris, Chlorella ellipsoidea, Scenedesmus obliquus, Scenedesmus quadricauda, Ankistrodesmus falcatus

ABSTRACT: A two-year study was made of the growth of algae under laboratory conditions, that is, constant composition of medium, temperature, and illumination. The investigations were conducted with pure cultures of Chlorella vulgaris (strain 87), Chlorella ellipsoidea, Scenedesmus obliquus, Scenedesmus quadricauda, and Ankistrodesmus falcatus. The nutrient medium for Chlorella consisted of KNO3, 1.82 g/l; K2HPO4, 0.42 g/l; MgSO4·7H2O, 0.96 g/l;

Card 1/2

ACCESSION NR: AP4031822

FeSO₄, 0.005 g/1; CaCl₂, 0.011; EDTA, 0.1 g/1, and Arnon microelement solutions, Λ_4 (1 ml) and B_7 (1 ml). Scenedesmus and Ankistrodesmus algae were grown in a nutrient medium consisting of Ca(NO₃)₂·4H₂O₄, 2.0 g/1; K₂HPO₄, 0.36 mg/1; MgSO₄·7H₂O₅, 0.2 g/1; FeSO₄, 0.005 g/1; EDTA, 0.1 g/1, and Arnon microelement solutions, Λ_4 (1 ml) and B_7 (1 ml). The initial pH of the medium ranged from 5.3 to 5.6. Air containing 2% CO₂ was bubbled through the suspension continuously (that is, 24 hours per day). TBS-30 lamps with a light intensity of 2000 lux at 27—28C were used for illumination. The experiments which were conducted through 1961 and 1962 produced quite similar data. No seasonal periodicity was observed in the development of algae grown under laboratory conditions. The number of cells was determined monthly in the 7- and 10-day yields with a difference not exceeding 20—30%. Orig. art. has: 5 figures.

ASSOCIATION: none

SUBMITTED: 31Jan63

DATE ACQ: 07May64

ENCL: 00

SUB CODE: LS Card 2/2 NO REF SOV: 010

OTHER: 001

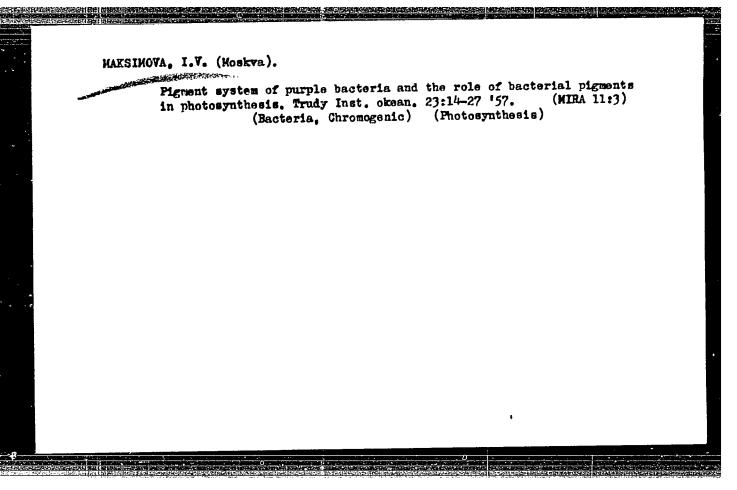
MAKSIMOVA, I.V.; TOROPOVA, Ye.G.; PIMENOVA, M.N.

Release of organic substances by green algae, grown on mineral media. Mikrobiologiia 34 no.3:483-490 My-Je '65.

(MIRA 18:11)

1. Biologo-pochvennyy fakulitet Moskovskogo gosudarstvennogo universiteta imeni M.V.Lomonosova.

TMYTET VA, F. 7. Cand Biol Sci (diss) The effect of light of various intensities
and spectral composition on some meantimities of the metabolism of purple bacteria"
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F-1

USSR/Microbiology - General Microbiology

Abs Jour : Ref Zhur - Biol., No 3, 1957, 9781

Author

Maksimova, I.V.

Inst Title : Effect of Light Intensity on Some Properties of Metabo-

lism of Purple Bacteria.

Orig Pub

: Dokl. AN SSSR, 1957, 112, No 3, 545-548

Abstract

: Rhodopseudomonas palustris on a mineral medium with H₂S increases only at light intensity above 7 thousand erg/cm²/second, while on media with organic compounds bacteria speedily begin development at a light intensity of 2-3 thousand erg/cm²/second, and at a light intensity above 12 thousand erg/cm²/second an "illumination inhibition" occurs; this phenomenon is not observed when bacteria are grown on mineral media. As the light intensity increases the consumption of organic substances (acetic, propionic acids) is decreased per unit of cell yield,

Card 1/2

moscow State Univ.

F-1

USSR/Microbiology - General Microbiology.

: Ref Zhur - Biol., No 3, 1958, 9782

Author

Abs Jour

: Maksimova, I.V.

Inst Title : Action of Light of Different Spectral Composition on

Development and Some Metabolic Properties of Purple

Bacteria.

Orig Pub

: Dokl. AN SSSR, 1957, 112, No 4, 766-768

Abstract

: It was established that Rhodopseudomonas palustris can grow when illuminated by a portion of the spectrum absorbed by carotenoid pigments. The cell yield at 450-550 m \mathcal{M} (which corresponds to carotenoid absorption) is greater than at 580-600 m \mathcal{M} (which corresponds to a small maximum of bacteriochlorophyll absorption). The number of cells, however, is considerably increased in the portion of the spectrum at 770-870 m \mathcal{M} where the maximum of the second region of bacteriochlorophyll absorption is located,

Card 1/2

MAKSIMOVA, I.V.

Photoautotrophic and photoheterorophic development of purple bacteria at various intensities of light. Nauch. dokl. vys. shkoly; biol. nauki no.2:139-146 158. (MIRA 11:10)

PERSONAL PROPERTY OF THE PERSON OF THE PERSO

1. Predstavlena kafedroy mikrobiologii Moskovskogo gosudarstvennogo universiteta imeni M.V. Lononosova.
(RACTERIA, CHROMOGENIC) (LIGHT--PHYSIOLOGICAL EFFECT)

MAKSIMOVA, I.V.

Variations in the degree of heterotronhy in Rhodopseudomonae palustris as induced by light of various intensity [with summary in English]. Izv.AN SSSR Ser.biol. 23 no.2:202-210 Mr-Ap '58.

(MIRA 11:4)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova, Biologo-bochvennyy fakul'tet. (LIGHT--PHYS IOLOGICAL EFFECT) (BACTERIA, AUTOTROPHIC)

COUNTRY : USSE CATEGORY :

ABS. JOUR. : REBIOL., No. (195), No. 10039

AUTHOR : Maksimova, i. V.
INST. :
ITTLE : Pigment System of Purpuric Bacteria and the Role of Bacterial Pigments in Photosynthesis Role of Bacterial Pigments in Photosynthesis GRIG. PUS. : Uspekhi sovvem. biol., 1958, 45, No l, 14-27

ABSTRACT : Review, Bibliography. 55 titles.

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also 2906

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I018/I218

AUTHOR-

Pimenova, M. N., Maksimova, I. V. and Balitskaya, R. M.

TITLE:

Studies on the composition of microflora accompanying algae during their mass cultivation

in open reservoirs

PERIODICAL.

Mikrobiologiya, v. 31, no. 2, 1962, 332-338

TEXT: Occasionally bacterial contaminants may amount to 50% of the total population of a reservoir inoculated with Chlorella vulgaris and Ankistrodesmus. The bulk of contaminant bacteria are non-sporeforming organisms belonging to the following four genera: Pseudomonas, Flavobacterium, Acromobacter and Serratia. Pseudomonads prevail. The number of sporeforming bacteria is usually small but they tend to increase under conditions unfavorable for the growth of algae. Oligonitrophils are frequently present and the presence of cellulose decomposing bacteria was also noted. Fungi are infrequently encountered, being mainly represented by organisms belonging to the genus Trichoderma. Nitrifying bacteria and Azotobacter were not detected. Bacteria found in reservoirs inoculated with Chlorella are more numerous than those present in reservoirs inoculated with Ankistrodesmus.

ASSOCIATION: Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M. V.

Lomonosova (Department of Soil Biology, Moscow State University, im. M. V. Lomonosov)

SUBMITTED. June 16, 1961

Card 1/1

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S/220/62/031/005/002/002 D291/D308

AUTHORS:

Maximova. I.V. and Pimenova, M.N.

TITLE:

The effect of antibiotics on the growth of Chlorella vulgaris and associated microflora in a joint culture

PERIODICAL:

Mikrobiologiya, v. 31, no. 5, 1962, 904-909

TEXT: The effect of various concentrations of several antibiotics on the growth of Chlorella vulgaris strain 87 and colonies of Pseudomonas ovalis, Achromobacter harthlebii and Bacillus cereus, cultured in modified Craig-Trellis medium in 250 ml flasks, was studied; the cultures were continuously stirred and an air-CO₂ mixture was bubbled through. It was observed that the antibictic concent rations capable of inhibiting the growth of Chlorella were considerably less when the cultures were subjected to continuous stirring. With the exception of nistatin, all the antibiotics tested were found to be capable of inhibiting bacterial growth at concentrations which did not retard

Card 1/3

S/220/62/031/005/002/002 D291/D308

The effect of antibiotics ...

the growth of Chlorella. These were as follows: penicillin, 500 Y/ml.; laevomycetin, 35 /ml.; colimycin, 5 Y/ml.; and tetracyclin, 25 Y/ml.. No adverse effect on the photosynthesis of the algae was caused by these concentrations. The possibility of adaptation of Chlorella to relatively high concentrations of antibiotics in the growth medium was explored. Some evidence of adaptation, as measured by a more gradual reduction in growth than that occurring in control cultures subjected to an identical antibiotic treatment, was noted. A detailed study was made of the effect of laevomycetin (at a concentration of 25 Y/ml.) on mixed algal-bacterial cultures. It was observed that the rates of reproduction of B. cereus and Ps. ovalis were greatly reduced, while the growth of A. harthlebii was completely inhibited. No adverse effects on Chlorella were noted and the activity of the antibiotic remained constant during several days of observation. There are 3 figures and 4 tables.

ASSOCIATION:

Biologo-pochvenyy fakultet Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova (Faculty of Biology and Soil Science, Moscow State University im. M.V. Lomonosov)

Card 2/3

The effect of antibiotics ...

S/220/62/031/005/002/002 D291/D308

SUBMITTED:

April 24, 1961

Card 3/3

MAKSIN IA, L.V.; PIMENOVA, M.M.

APPROVED FOR RELEASE: 06/20/2000 rowt CIA-RDP86: 00513R001031710002-6"

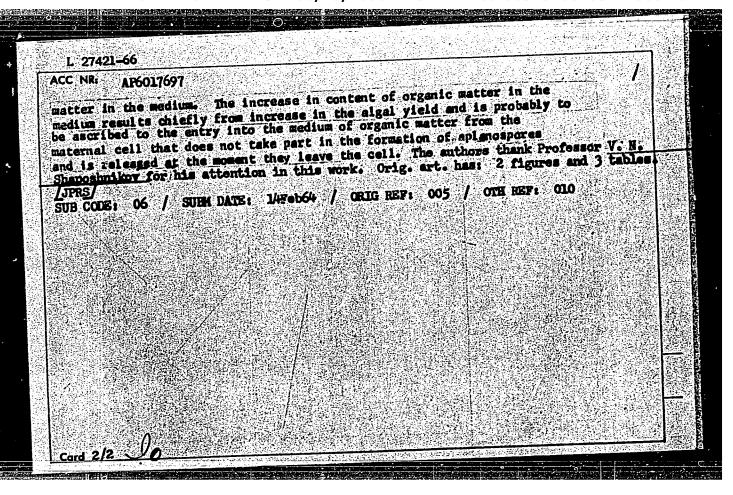
Effect of artification with the unicellular green alrae. Mikrobiologiia 31 nc.4: 0050 (MHA 18:3)

J1-Ag 162.

1. Biologo-pochvennyy fakulitet Moskovskogo gosudarstvennogo universiteta imeni komemeseva.

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G: Biology-Soil Faculty, Moscow Sta chvennyy fakul tet Moskovskogo gosud	arstvennogo :iversiteta)
TIE: Effect of the redox potential	on the development of bacteria in cultures of
gae NURCE: AN SSSR. Mikrobiologiya, V.	34. no. 2; 1965, 344-349
NURCE: AN SSSR. Mikrobiologiya. DPIC TAGS: chlorella. bacteria, plan	t growth, besteriology
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SUB CODE: 06 / SUBM DATE: 14Feb5	
Card 1//1	IIDC: 576.8.095.38

JUTHOR: Maksimova, I. V.: Toropova, Ye. G.: Pimenova, H. N. JUTHOR: Maksimova, I. V.: Toropova, Ye. G.: Pimenova, H. N. JUTHOR: Maksimova, I. V.: Toropova, Ye. G.: Pimenova, H. N. JUTHOR: Maksimova, I. V.: Toropova, Ye. G.: Pimenova, H. N. JUTHOR: Maksimova, I. V.: Toropova, Ye. G.: Pimenova, H. N. JUTHOR: Maksimova, I. V.: Toropova, Ye. G.: Pimenova, H. N. JUTHOR: Maksimova, I. V.: Toropova, Ye. G.: Pimenova, H. N. JUTHOR: Maksimova, I. V.: Toropova, Ye. G.: Pimenova, H. N. JUTHOR: Maksimova, I. V.: Toropova, Ye. G.: Pimenova, H. N. JUTHOR: Maksimova, I. V.: Toropova, Ye. G.: Pimenova, H. N. JUTHOR: Maksimova, I. V.: Toropova, Ye. G.: Pimenova, H. N. JUTHOR: Maksimova, I. V.: Toropova, Ye. G.: Pimenova, H. N. JUTHOR: Maksimova, I. V.: Toropova, Ye. G.: Pimenova, H. N. JUTHOR: Maksimova, I. V.: Toropova, Ye. G.: Pimenova, H. N. JUTHOR: Maksimova, I. V.: Toropova, Ye. G.: Pimenova, H. N. JUTHOR: Maksimova, H. N. JUTHOR: Maksi	THOR: Makeimova, I. V.; Toropova, Ye. G.; Pimenova, H. N. GG: Soil Biology Faculty, Hoscow State University im. M. V. Lomonsov (Biologo-bochvennyy fakul tet Hoskovskogo gosudarstvonnogo universiteta) THE: Release of organic matter by green algae grown in mineral media OURCE: AN SSSR. Hilrobiologiya, v. 34, no. 3, 1965, 483-490 OPIC TAGS: algas, chlorella, plant development, microbiology BSTRACT: When Chlorella pyremoidosa and Chlorella vulgaris are grown in liquid mineral media, a substantial amount of organic matter accumulates in the filtrate, the amount increasing with the yield of algae. The ratio of the amount of organic matter in the medium to the amount of organic matter in the cells changes in the course of algal development. During the first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate fi	L: 27421-66 EWT(1) SCTB DD	SOURCE CODE: UR/0220/65/034/003/0483/0490
RG: Soil Biology Faculty, Moscow State University im. M. V. Louisian Convenny fakul tet Moskovskogo gosudarstvonnogo universiteta) THE: Release of organic matter by green algae grown in mineral media SOURCE: AN SSSR. Mikrobiologiya, v. 34, no. 3, 1965, 483-490 FOPIC TAGS: algas, chlorella, plant development, microbiology ABSTRACT: When Chiorella pyrenoidosa and Chiorella vulgaris are grown in liquid mineral media, a substantial amount of organic matter accumulates in the filtrate, the amount increasing with the yield of algae. The ratio of the amount of organic matter in the medium to the amount of organic matter in the cells changes in the course of algal development. During the first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate filtrate filtrate filtrate filtrate medium. Different species of chlorella release into the medium	ochwennyy familitat Moskowskogo gosudarstvonnogo universitata) TITE: Release of organic matter by green algae grown in mineral media OURCE: AN SSSR. Mikrobiologiya, v. 34, no. 3, 1965, 483-490 OPIC TAGS: algas, chlorella, plant development, microbiology BSTRACT: When Chlorella pyrenoidosa and Chlorella vulgaris are grown in the filtrate, the amount increasing with the yield of algae. The ratio of the amount of organic matter in the medium to the amount of organic matter in the cells changes in the course of algal development. During the first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate is about 30% of that in the cells. This value then decreases, ranging from 5 to 10% throughout the development of the culture. Light intensity and temperature have no appreciable effect on the accumulation of organic matter in the medium. Different species of chlorella release into the medium approximately the same amount of organic matter per unit of biomass.	C NR: AB6017697	a. G.: Pimenova, H. N. 35
THE: Release of organic matter by green algae grown in mineral media OURCE: AN SSSR. Mikrobiologiya, v. 34, no. 3, 1965, 483-490 OPIC TAGS: algas, chlorella, plant development, microbiology ABSTRACT: When Chlorella pyrenoidosa and Chlorella vulgaris are grown in liquid mineral media, a substantial amount of organic matter accumulates liquid mineral media, a substantial amount of organic matter fit the amount increasing with the yield of algae. The ratio in the filtrate, the amount increasing with the yield of algae. The ratio of the amount of organic matter in the medium to the amount of organic matter in the cells changes in the course of algal development. During the first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate f	ITIE: Release of organic matter by green algae grown in mineral media OURCE: AN SSR. Mikrobiologiya, v. 34, no. 3, 1965, 483-490 OPIC TAGS: algae, chlorella, plant development, microbiology BETRACT: When Chlorella pyrenoidosa and Chlorella vulgaris are grown in BESTRACT: When Chlorella pyrenoidosa and Chlorella vulgaris are grown in BESTRACT: When Chlorella pyrenoidosa and Chlorella vulgaris are grown in BESTRACT: When Chlorella pyrenoidosa and Chlorella vulgaris are grown in BESTRACT: When Chlorella pyrenoidosa and Chlorella vulgaris are grown in In BESTRACT: When Chlorella pyrenoidosa and Chlorella vulgaris are grown in BESTRACT: When Chlorella pyrenoidosa and Chlorella vulgaris are grown in BESTRACT: When Chlorella pyrenoidosa and Chlorella vulgaris are grown in BESTRACT: When Chlorella pyrenoidosa and Chlorella vulgaris are grown in BESTRACT: When Chlorella pyrenoidosa and Chlorella vulgaris are grown in BESTRACT: When Chlorella pyrenoidosa and Chlorella vulgaris are grown in BESTRACT: When Chlorella, plant development, matter in the decimages in the course of organic matter in the medium. Different species of chlorella release into the medium BESTRACT: When Chlorella, plant development, microbiology BESTRACT:		TILL THE THE ME YOU LOUDING TO THE TENTE OF THE PERSON OF
TTIE: Release of organic matter by green algae grown in mineral source: AN SSSR. Mikrobiologiya, v. 34, no. 3, 1965, 483-490 KOPIC TAGS: algae, chlorella, plant development, microbiology KOPIC TAGS: algae, chlorella pyrenoidosa and Chlorella vulgaris are grown in a liquid mineral media, a substantial amount of organic matter accumulates in the filtrate, the amount increasing with the yield of algae. The ratio in the filtrate, the amount increasing with the yield of algae. The ratio of the amount of organic matter in the medium to the amount of organic matter in the cells changes in the course of algal development. During the matter in the cells changes in the course of algal development. During the first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate is about 30% of that in the cells. This value then decreases, ranging from 5 to 10% throughout the development of the culture. Light intensity and temperature have no appreciable effect on the accumulation of organic temperature have no appreciable effect on the accumulation of by organic temperature have no appreciable effect on the accumulation of the medium	OURCE: AN SSR. Mikrobiologiya, v. 34, no. 3, 1965, 483-490 OFIC TAGS: algas, chlorella, plant development, microbiology OFIC TAGS: algas, chlorella pyrenoidosa and Chlorella vulgaris are grown in BSTRACT: When Chlorella pyrenoidosa and Chlorella vulgaris are grown in iquid mineral media, a substantial amount of organic matter accumulates in the filtrate, the amount increasing with the yield of algae. The ratio of the amount of organic matter in the medium to the amount of organic matter in the cells changes in the course of algal development. During the first two days, when the yield is small, the organic matter of the filtrate first two days, when the yield is small, the organic matter of the filtrate sto 10% throughout the development of the culture. Light intensity and temperature have no appreciable effect on the accumulation of organic temperature have no appreciable effect on the accumulation of organic matter in the medium. Different species of chlorella release into the medium matter in the medium. Different species of chlorella release into the medium approximately the same amount of organic matter per unit of biomass. Cell autolysis is not the main reason for the accumulation of organic	G: Soll Brougy schwennyy fakul tet Hoskovskogo gosud	arstvennogo universiteta)
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LIVSHITS, L.S., kand.tekhn.nauk; POLYAKOVA, R.B., inzh.; MAKSIMOVA, K.I., inzh.

Investigation of the welded joints of steampipes from 1Khi8N12T

austentic steel. Elek. sta. 32 no.7:21-25 Jl 61. (MIRA 14:10)

(Steampipes)

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"Some rules governing monomycin biosynthesis."

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MAKSIMOVA, L.I.; TSEYTLIN. A.G., prof., nauchnyy rukovoditel

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1. Clavnyy pediatr Gortkovskogo oblastnogo otdela zdravockhraneniya (for Maksimova).

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MAKSIMOVA, L.I.; KURNOSOVA, Ye.F., wrach

Rational utilization of the creche. Vop. okh. mat. i det. 6 no.8: 66-69 Ag '61. (MIRA 15:1)

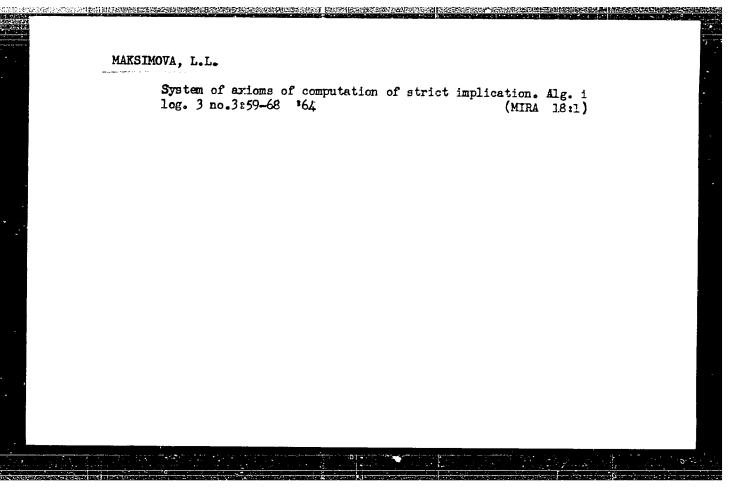
1. Glavnyy pediatr Gor'kovskogo oblastnogo otdela zdravcokhraneniya (for Maksimova). 2. Yasli No.1 Dzerzhinska Gor'kovskoy oblasti (for Kurnosova).

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MAKSIMOVA, L. I., Cand. Medic. Sci. (diss) "Hygiene of Labor in Building Ceramics Industry," Moscow, 1961, 19 pp. (Acad. Med. Sci. USSR. Inst. of Labor Hygiene and Industrial Illnesses) 250 copies (KL Supp 12-61, 286).

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ceramics industry. Uch.zap.Mosk.nauch.-issl.inst.san.i gig.
no.8:71-74'61. (MIRA 16:7)
(CERAMIC INDUSTRIES-HYGIENIC ASPECTS)
(LUNGS-DUST DISEASES)



MKSINE TANA

128

PHASE I BOOK EXPLOITATION

SOV/6246

Soveshchaniye po tseolitam. 1st, Leningrad, 1961.

Sinteticheskiye tseolity; polucheniye, issledovaniye i primeneniye (Synthetic Zeolites: Production, Investigation, and Use). Moscow, Izd-vo AN SSSR, 1962. 286 p. (Series: Its: Doklady) Errata slip inserted. 2500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Otdeleniye khimicheskikh nauk. Komisiya po tseolitam.

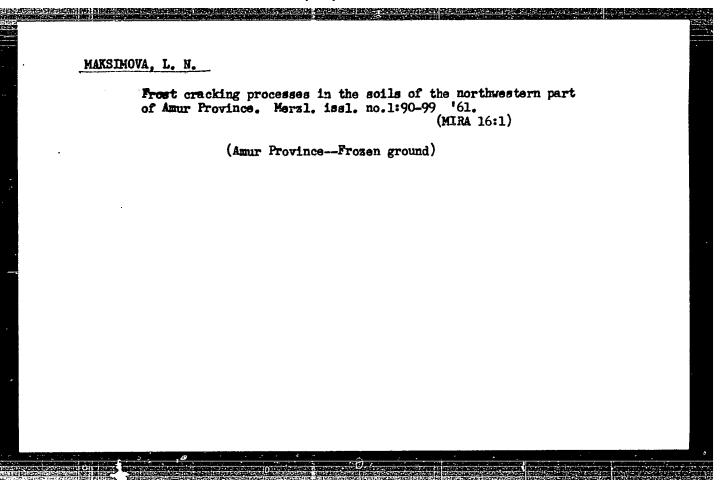
Resp. Eds.: M. M. Dubinin, Academician and V. V. Serpinskiy, Doctor of Chemical-Sciences; Ed.: Ye. G. Zhukovskaya; Tech. Ed.: S. P. Golub'.

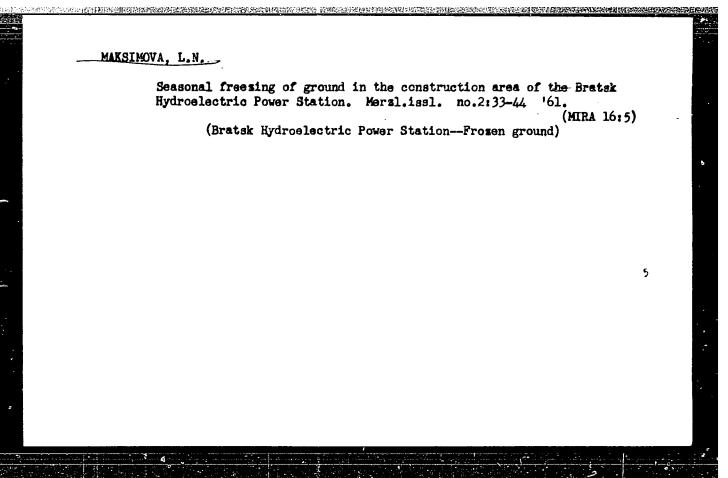
FURPOSE: This book is intended for scientists and engineers engaged in the production of synthetic zeolites (molecular sieves), and for chemists in general.

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	Synthetic Zeolites: (Cont.)	BOV/6246	
	COVERAGE: The book is a collection of reports presented at to Conference on Zeolites, held in Leningrad 16 through 19 Man at the Leningrad Technological Institute imeni Lensovet, a purportedly the first monograph on this subject. The reportion on various types of zeolites and methods for their in zeolites. No personalities are mentioned. References following the conferences followed.	the First arch 1961 and 1s arts are adsorp-	•
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KORYAGIN, K.V.; MAKSIMOVA, L.N.

Substituting emulsions for sizing mixtures. Tekst. prom.
20 no. 11:66-67 N '60. (MIRA 13:12)

1. Master fabriki imeni Krasina (for Koryagin).

(Flax) (Sizing (Textile))

L 19183-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD
ACCESSION NR: AR3004208 S/0276/63/000/005/G049/G050

SOURCE: RZh. Tekhnologiya mashinostroyeniya, Abs. 5G317

AUTHOR: Babich, Ye. P.; Voloshina, A. S.; Maksimova, L. N.; Saburov, V. P.; Topaller, A. N.

TITLE: Study of causes of formation of sievelike porosity in cast steel

CITED SOURCE: Sb. Liteyn. proiz-vo. Omsk, 1962, 51-74

TOPIC TAGS: sievelike porosity, cast steel, porosity formation, sievelike porosity

TRANSLATION: Results of experiments confirmed the theory of sievelike porosity formation (SP). Conditions for formation of sievelike porosity are: simultaneous presence in liquid steel of hydrogen/and.ferrous.oxide in quantities greater than critical at the time of formation of a hard skin on the cast; as well as a long time interval between filling the mold and skin formation on the surface of the cast. SP has been successfully artificially created by introducing as oxidizer manganese peroxide into normally oxidized steel. A method has been developed for detection of SP by means of etching the cast surface after removing from it a 2 mm. layer. By utilizing the method of artificially obtaining SP and the method of its

Card 1/2

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detection the effect of a number of factors affecting the formation of SP has been established and tested. These factors may be divided into those that contribute to the formation of SP (presence of humidity in the mold, additions etc; increase in filling density and hence a decrease in gas permeability of the mold; high temperature of casting), and those which either impair SP formation or completely eliminate it (increasing carbon content in atecl, increase in ferrostatic pressure, sufficient thickness of cast walls and qualitative decidation of metal in the furnace, with a necessary quantity of aluminum in the ladle). Eight figures, twolve references.

DATE ACQ: 21Jun63

SUB CODE: IE, MA

ENCL: 00

Card 2/2

MAKSIMOVA, L. P.

"Biology of the Monodace of the Sea of Azov." Cand Biol Sci, Moscow Technical Inst of the Fish Industry and Economy imeni A. I. Mikoyan, 5 Mar 54. Dissertation (Vechernyaya Moskva Moscow, 24 Feb 54)

SO: SUM 186 19 Aug 1954

MAKSIM OVA, K.P.

USSR/Analysis of Inorganic Substances

G-2

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19572

Author : A. A. Popel', L. P. Maksimova Inst : University of Kazan'

Title : Photocolorimetric Determination of Mobium

Orig Pub: Uch. Zap. Kazansk. Un-ta, 1956, No 5, 86 - 90

Abstract: The method of determination of Hv as phosphate-

molybdate-niobate blue (A.A. Davydova, Z.M. Vaysberg, Zavod. laboratoriya, 1947, 9, 1038) is improved. For the determination of Nb in alloy steels, the weighed sample of 0.1 g is dissolved in 8 - 10 ml of 6 n. H₂SO₄. Fe is oxidized by adding several drops of concentrated HMO₃. In order to avoid Mb hydrolysis, 5 ml of 2% HF are

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USSR/Analysis of Inorganic Substances

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Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19572

added and all is heated 10 min. The solution is transferred into a measuring flask of 50 ml capacity, 10 ml of 6 n. H₂SO₄ are added and the flask is filled up to the mark by adding water. An aliquot portion of the solution is transferred into another flask of 50 ml capacity, 1 ml of a 3% solution of sodium phosphate, 1 ÷ 2 ml of 6 n. H₂SO₄, 4 ml of a 2% solution of (NH₄)₂-NoO₄ and 12 ± 20 ml of water are added. All is heated to 30° and kept at this temperature to complete the formation of the yellow phosphate-molybdate-niobate complex, after that 15 - 20 ml of 6 n. H₂SO₄ and, 20 - 30 sec. later, 1 ml of a 2% solution of SnCl₂ are added. The solution

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USSR/Analysis of Inorganic Substances

G-2

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19572

is diluted with water up to the mark and photo-colorimetered. The error does not exceed 6%. The duration is 30 - 35 min. Cr, Mi, Si, and Tl does not interfere, if their contents did not exceed the Nb content 350, 280, 140 and 2 - 4 times respectively.

Card 3/3

- 50 -

MANSIMOVA, L.P.

Consumption of food by young-of-the-year habrid carp in ponds of the northwestern U.S.S.R. Trudy sov. Ikht. kom. no.14:41-47 '62. (MIRA 15:12)

EHIGAIEV. N.V., inzhener; MAKSIMOVA, L.T.

Device for wood inlay work. Der.i lesokhim.prom.3 no.1:24-25
Ja '54. (MIRA 7:2)

1. Rizhakiy mebel'nyy kombinat No.1. (Marquetry)

BERZIN'SH, G.V.; MAKSIKOVA, L.T.: APATSKAYA, N.A.

Finishing furniture parts by the dipping method. Der.prom 5
no.7:25-26 Jl '56. (MLRA 9:9)

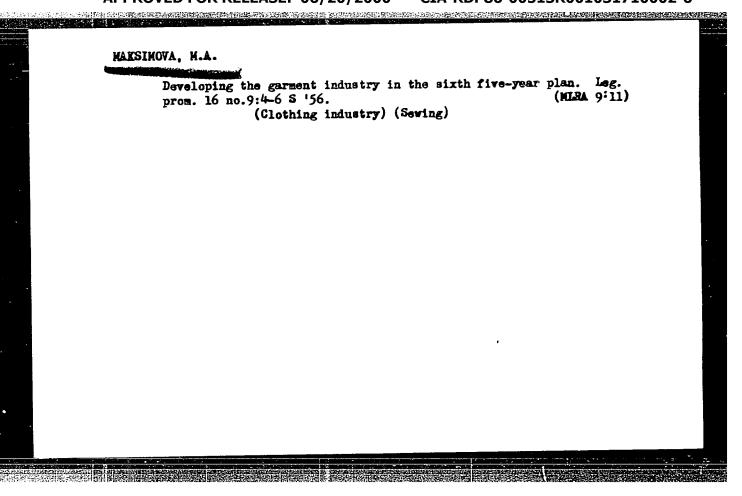
1.Rizhskiy mebel'nyy kombinat No.1.
(Riga--Furniture industry)

MAKRINGA, I.V. Addition to onceptator creatine prouphouranglerage a county in the most that and bird turing muscular activity. Ukr. (local most in county) in the most shift for. 1. Satisfor of bis camistry of the beningrat Research voltage of the pringrat Research voltage.

ROGOZKIN, V.A.; MAKSIMOVA, L.V.

Effect of nicotinamide on the level of nicotinamide adenine dinucleotide and nicotinamide adenine dinucleotide glycohydrolase activity in the skeletal muscles and liver. Ukr. biokhim. zhur. 37 no.3:379-385 '65. (MIRA 18:7)

1. Nauchno-issledovatel'skiy institut fizicheskoy kul'tury, Leningrad.



MAKSIMOVA, M.D., inzh.

Cleaning of rayon fabrics and clothing. Tekst.prom. 21 no.1:96_Ja *61.
(MIRA 14:3)

1. TSentral'nyy nauchno-issledovatel'skiy institut shelkovoy promyshlennosti.

(Rayon-Cleaning)